

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

RECEIVED SURVEILLANCE SECTION

INTER - OFFICE CORRESPONDENCE

AUG 15 1973

DATE:

June 20, 1973

ENVIRONMENTAL PROTECTION AGENCY

STATE OF ILLINOIS

MEMO TO:

Division of Water Pollution Control - Surveillance Section

FROM:

Calvin Locker, Sanitarian, Wabash Sub-Unit, Surveillance Section, DWPC

SUBJECT:

CRAWFORD COUNTY - Briggs Manufacturing

Waste Treatment Facilities

On June 20, 1973, this writer conducted an inspection of the Briggs Manufacturing waste treatment facilities. During the inspection, the following people were interviewed: Mr. J. B. Harper, Plant Manager; Mr. John Moore, Manager of Engineering; and Mr. Jim Thorne, Ceramic Engineer.

The treatment facilities consist of two Walker Process settling tanks, two sludge lagoons and two 150 gpm pumps. The treated effluent is discharged to Sugar Creek.

The raw wastewater is pumped to the settling tanks (55,000-gallon capacity), where alum is added to aid in the settling process. The material is allowed to settle for 3-4 hours, at which time the supernatant is discharged to Sugar Creek and the sludge material is pumped to the lagoon, where it is allowed to dewater.

Since one tank is treated each day, the average daily flow from the plant is approximately .05 MGD. It normally requires 5 hours for each tank to empty.

EPA Region 5 Records Ctr. 296438

EVERY INTER-OFFICE LETTER SHOULD HAVE ONLY ONE SUBJECT.
ALL LETTERS TO BE SIGNED . . . NO SALUTATION OR COMPLIMENTARY CLOSING NECESSARY.

Page #2. BRIGGS MANUFACTURING - Waste Treatment Facilities
Inspection Report

EFFLUENT QUALITY AND RECEIVING STREAM

Listed below are the tabulated lab results from the last 10 routine samples collected at Briggs:

| DATE | BOD (mg/1) | TSS (mg/1) | Zn (mg/1) | NH ₄ (mg/1) |
|----------|------------|------------|-----------|------------------------|
| 8/10/72 | 1 | 3 | 2.7 | 0.0 |
| 8/30/72 | 8 | 5 | 3.4 | 0.1 |
| 9/14/72 | 3 | 6 | 1.3 | 0.1 |
| 10/19/72 | 4 | 0 | 3.3 | , |
| 10/12/72 | 2 | 24 | 2.0 | 0.1 |
| 11/14/72 | - | 8 | .3 | |
| 12/29/72 | 5 | - | 3.2 | 0.0 |
| 1/19/73 | 19 | 20 | 3.0 | 0.1 |
| 3/15/73 | 1 | 16 | 2.3 | |
| 5/17/73 | <u>-</u> | <u>13</u> | 7.5 | |
| TOTALS | 43 | 95 | 29.0 | 0.4 |
| Averages | 5.4 | 10.6 | 2.9 | 0.1 |

As these results indicate, zinc has been present in the effluent in fairly high amounts. Briggs tried extending the detention time, but this procedure did not appear to improve the effluent noticeably. On the subject visit, this writer sampled the discharge once each hour as well as collecting a composite sample. The results are shown below. Zinc was the only parameter tested.

Page #3. BRIGGS MANUFACTURING - Waste Treatment Facilities
Inspection Report

GRAB SAMPLES:

| Time Collected | Zinc (mg/1) |
|----------------|-------------|
| 11:20 a.m. | 1.6 |
| 12:00 noon | 1.9 |
| 1:00 p.m. | 2.1 |
| 2:00 p.m. | 1.7 |
| 3:00 p.m. | 1.8 |

4 Hour Composite Sample = 1.5 mg/1

(sample collected for 2 minutes out of each 10 minutes period)

Since the above sampling was performed, Briggs Manufacturing has changed to a new type of glaze which has only a very negligible amount of zinc present. A follow-up visit will be conducted to check the results obtained by changing glaze materials.

During dry periods, Briggs' discharge makes up the total flow in the receiving stream. Therefore, their effluent will also have to meet the stream standards.

OPERATOR CERTIFICATION AND OPERATION REPORTS

Alrex Parkhill is a properly certified Class VII operator. They have recently obtained all of the necessary lab equipment needed to run their required tests. Mr. Thorne indicated that they were ready to start submitting operation reports.

Page #4. BRIGGS MANUFACTURING - Waste Treatment Facilities
Inspection Report

OPERATING PERMIT STATUS

Briggs submitted an application for an operating permit which was denied. The main reasons for denial were the presence of zinc in the effluent and their method of sludge disposal. Briggs was hauling their sludge to the Crawford County Landfill; however, this landfill is not permitted to accept the material. The closest acceptable landfill is in Olney which is approximately 45 miles away. Presently, Briggs is contemplating hauling their sludge to Indiana.

Calvin Locker, Sanitarian Wabash Sub-Unit

CL:bh 7/27/73

cc: - K. L. Baumann, Supervisor Ohio Basin Unit Surveillance Section, WPC

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY-DIVISION OF WATER POLLUTION CONTROL SPECIAL ANALYSIS FORM 11:20 am Wabesh Time Collected Sub-Basin Date Collected Collector_ Facility Name: lity Number: / File Town 1145000 Stream Code: Stream Name(s) Source of Sample: (Exact Location) Scharg Physical Observations, Remarks: Field pH Field Temp. Field Dissolved Oxygen Flow Coliform/100ml Arsenic BOD Barium Fecal Coliform _COD 100 m1 Boron Fecal Strep TS/EC 100 ml Cadmium Algae (Total) _Susp.Solids Copper Ammonia (N) _Vol.Susp.Solids __Chromium (tri) __Organic Nitrogen (N) __Chronium (hex) Nitrate + Nitrite(N) ____Turbidity (JTU) _Iron (Total) _Phosphorus (P) _Hardness Iron (Dissolved) Chloride Alkalinity Lead _Fluoride _Total Acidity _Sulfate Manganese __Free Acidity _Mercury Cyanide __0il _MBAS Nickel _Other (Specify) _Phenol (ppb) __Selenium

_Silver

1.6

Transported by:_

Received by:____

Transported by:_____

Received by:____

OR LAB USE ONLY

JUN 2 7 1973

Date analysis completed: JUN 2 6 1973

Total Tests requested: / Tests run:

Date results forwarded:_

Lab Numbe

| Time Collected 12 | SPECI SPECI | AL ANALYSIS FO | | 1. | / |
|----------------------------|---------------------|-------------------------|--------------|---|-------------------------------|
| Time Collected / / | | Sub-Bas | sin Le | Ja No | 34 |
| 2-10 00110010 | 0-72 | | | | |
| Facility Name: BRIGG | Facility Numb | er: 210. | γ File T | own \mathcal{L} | obiason |
| Stream Nama(s) | sh- Sugar | Ck | Stream | Code: | 31= |
| Source of Sample: (Exact) | Location) | | | | |
| | Disc | base | | | |
| | | 0 | - | | |
| Physical Observations, Rem | narks | | | | |
| | | | • | | |
| | | | | | |
| | | | n:-11 v | | n: 14 m |
| Flow Fiel | ld Dissolved Oxygen | | Field pH | | Field Temp. |
| Arsenic | | _Coliform/100m | n1 | | BOD |
| Barium | | _Fecal Colifor 100 m | | | C OD |
| Boron | | _Fecal Strep | | | TS/EC |
| Cadmium | | 100 π Algae (Total)_ | | | Susp.Solids |
| Copper | | Ammonia (N) | | | Vol.Susp.Solids |
| Chromium (tr | i) | _Organic Nitro | ogen (N) | | PH |
| Chromium (he | к) <u></u> | _Nitrate + Nit | rite(N) | | Turbidity (JTU) |
| Iron (Total) | *********** | Phosphorus (P) | | | Hardness |
| Iron (Dissol | ved) | Chloride | | | Alkalinity |
| Lead | | _Fluoride | | | Total Acidity |
| Manganese | | _Sulfate | | | Free Acidity |
| Mercury | | _Cyanide | , | <u></u> | Oil |
| Nickel | | _MBAS | | | Other (Specify) |
| Selenium | | _Phenol (ppb) | | | |
| Silver | Transported by: | | Lah Numb | | AB USE ONLY 26, ec'd by Lenfo |
| 1.9 (Zinc) | Received by: | 1 | Date sam | ple rec'o | 1:UN 2 0 1973me: 53 |
| | | | Date ana | lysis cor | npleted: JUN 2 6 1373 |
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| Time Collected / | .00 b | Sub-Ba | sin_W | 10603 | <u> </u> |
| Date Collected 6 - | 20-72 | Collec | | OCKEY |) |
| Facility Name: Brid | as M Facility Num | ber: 2148 | File T | own 120 | bruson |
| Stream Name(s) Wol | Josh & Suga | 1)1 | Stream | | B 🚐 |
| Source of Sample: (Exa | act Location) | | | | |
| | Desi | change | · . · · · · · · · · · · · · · · · · · · | | |
| | | | | | |
| Physical Observations, | , Remarks: | · | | | |
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| | | | | | |
| Flow | Field Dissolved Oxyger | n | Field pH | | Field Temp. |
| Arsenic | | Coliform/100 | ml | | BOD |
| Barium | | Fecal Colifo | | | COD |
| Boron | | 100 Fecal Strep | | | TS/EC |
| Cadmium | | 100 Algae (Total | | | Susp.Solids |
| Copper | | Ammonia (N) | | | Vol.Susp.Solids |
| Chromium | (tri) | Organic Nitr | ogen (N) | | рН |
| Chromium | (hex) | Nitrate + Nitrite(N) | | | Turbidity (JTU) |
| Iron (Tot | :a1) | Phosphorus (P) | | · | Hardness |
| Iron (Dis | ssolved) | Chloride | - | | Alkalinity |
| Lead | | Fluoride | | | Total Acidity |
| Manganese | | Sulfate | | | Free Acidity |
| Mercury | | Cyanide | | · · · · · · · · · · · · · · · · · · · | 0il |
| Nickel | | MBAS | - | | Other (Specify) |
| Selenium | | Phenol (ppb) | | FOR LA | AB USE ONLY |
| Silver | Transported by:_ | ĈC. | | | 527ec'd by: Jent |
| 2.1 (Zinc | Received by: | | | | 1: JUN 2 0 1973e: 5 30 pleted JUN 2 6 1973 |
| | Transported by: | | | | varded: <u>JUN 2 7 1973</u> |
| • | Received by: | | | | ested: Tests run |
| • | • | | II ah Ca-+ | 5 m i . (/ | The Committee of the Co |

| Date Collected 6- Facility Name: BRIG | 20-72 GS MFG Number | | Vahash Locker Town Robinson in Code: BF |
|---------------------------------------|--|------------------------------------|--|
| | Dis | ehorg s | |
| . Physical Observations, | Remarks: | - | |
| Flow | Field Dissolved Oxygen | Field pH | Field Temp. |
| Arsenic | | Coliform/100ml | BOD |
| Barium | | Fecal Coliform | COD |
| Boron | | 100 ml _Fecal Strep | TS/EC |
| Cadmium | ** | 100 ml Algae (Total) | Susp.Solids |
| Copper | · | _Ammonia (N) | Vol.Susp.Solid |
| Chromium | (tri) | Organic Nitrogen (N) | рН |
| Chromium | (hex) | _Nitrate + Nitrite(N) | Turbidity (JTU) |
| Iron (Total | al) | _Phosphorus (P) | Hardness |
| Iron (Dis | solved) | _Chloride | Alkalinity |
| Lead | - | _Fluoride | Total Acidity |
| Manganese | | _Sulfate | Free Acidity |
| Mercury | ************************************** | Cyanide | 0il |
| Nickel | | MBAS | Other (Specify) |
| SeleniumSilverZinc | Transported by: Received by: Transported by: Received by: | Date sa Date an Date re Total 1 | FOR LAB USE ONLY DATE 1628 UNES 1973 Property 1973 Proper |

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY -- DIVISION OF WATER POLLUTION CONTROL SPECIAL ANALYSIS FORM 3:00 Time Collected Sub-Basin Date Collected Collector_ Facility Number: File Town Facility Name: @ censon Stream Name(s) Stream Code: Source of Sample: (Exact Location) Physical Observations, Remarks: Field Dissolved Oxygen Field pH Field Temp. Flow Arsenic Coliform/100ml BOD Barium Fecal Coliform COD 100 ml Fecal Strep Boron _TS/EC 100 ml Algae (Total) Cadmium _Susp.Solids Copper Ammonia (N) _Vol.Susp.Solids _Chromium (tri) _Organic Nitrogen (N) _Chromium (hex) _Nitrate + Nitrite(N) _Turbidity (JTU) _Iron (Total) Phosphorus (P) _Hardness Iron (Dissolved) Chloride Alkalinity _Lead Fluoride _Total Acidity Manganese _Sulfate _Free Acidity Mercury Cyanide _0i1 MBAS Nickel _Other (Specify) _Selenium _Phenol (ppb) Transported by: <u>U</u> Silver Lab Number: Date sample rec'd: JUN 2 07 973 Received by:____ Date analysis completed UN 2 6 1973 Transported by:__ Date results forwarded:__

Received by:____

Total Tests requested: / Tests run

Lab Section: Cor! Supervisor

| Time Collected 15 15 a — 3:15 p Sub-Basin Wahash Date Collected 6-20-77 Collector Locker Facility Name: Facility Number: File Town Robinson Stream Name(s) Walash - Sugar (k Stream Code: BF Source of Sample: (Exact Location) | | | | |
|---|-----------------------------------|------------------|---------------------|---|
| Ph | <u>vsical Observations, Remar</u> | ks: Clan - | 4 HR | Composit |
| Flo | ow Field | Dissolved Oxygen | Field pH | Field Temp. |
| | Arsenic | Coliform/l | 00m1 | BOD |
| | Barium | Fecal Coli | | COD |
| | Boron | Fecal Stre | - | TS/EC |
| | Cadmium | | 100 mlAlgae (Total) | |
| | Copper | Ammonia (N |) . | |
| | Chronium (tri) | Organic Ni | trogen (N) | рН |
| | Chronium (hex) | Nitrate + | Nitrite(N) . | Turbidity (JTU) |
| ; | Iron (Total) | Phosphorus | (P) | Hardness |
| | Iron (Dissolved |)Chloride | | Alkalinity |
| | Lead | Fluoride | | Total Acidity |
| | Manganese | Sulfate | | Free Acidity |
| | Mercury | Cyanide | | Oil |
| | Nickel | | - | Other (Specify) |
| - | Selenium | Phenol (pp | b) | FOR LAB USE ONLY |
| | | ransported by: | Date sam | e111531 Rec'd by Inple rec'd: JUN 2 0 1973 Fine: 1530 lysis completed: JUN 2 3 1973 |

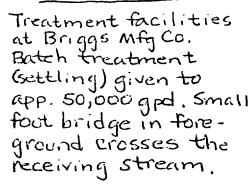
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Date results forwarded: Jun 2 5 127

Total Tests requested: Tests run:

44.4

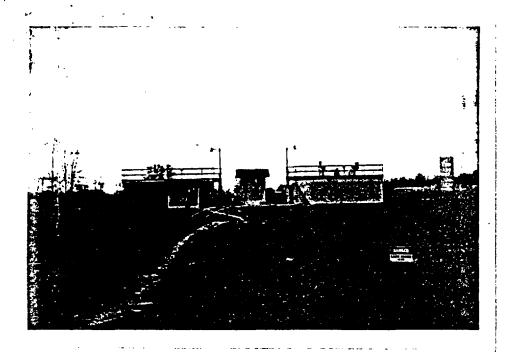


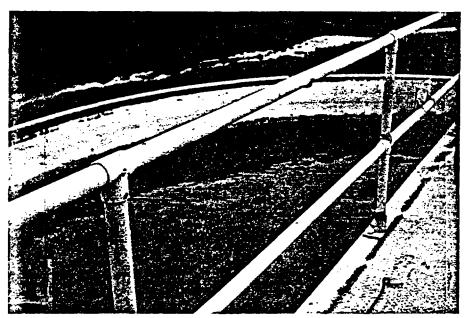
PICTURE #2

Appearance to clarified water after 4 hrs. settling time.

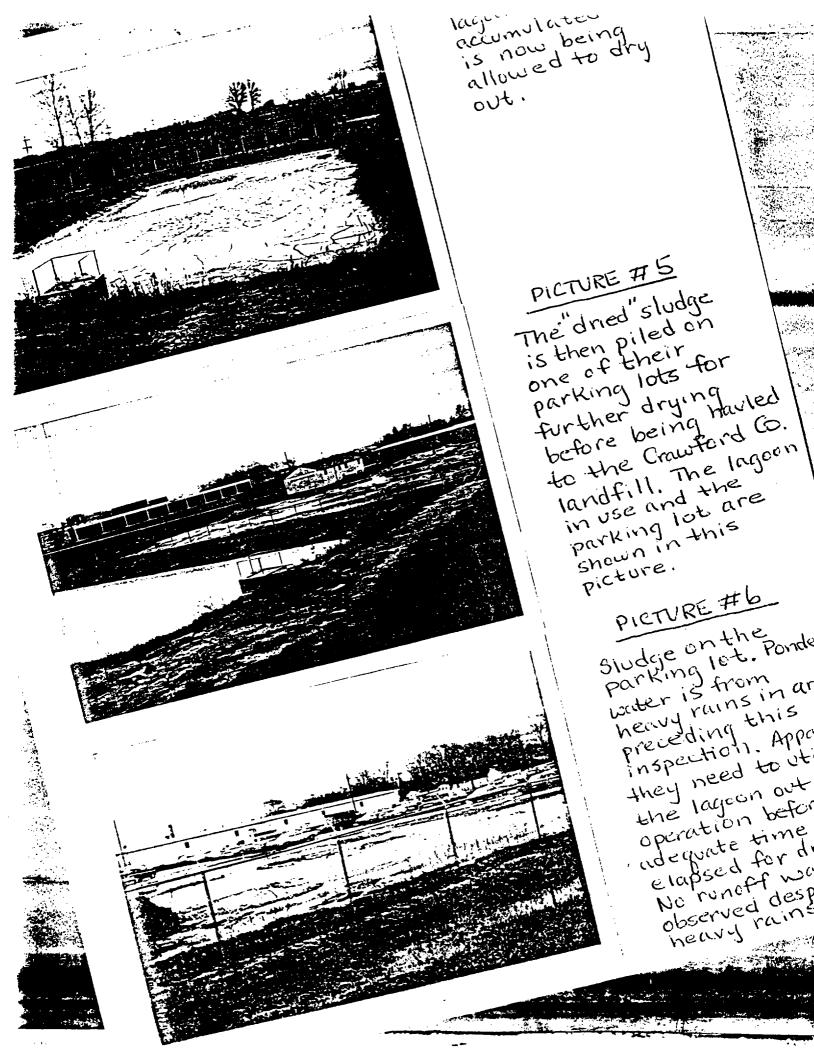
PICTURE #3

Sludge lagoon which receives wastewate while the batch treatment is taking place plus the sludge which settle out in the tanks during the treatment goes from here to the tanks for treatment.









| ibash / 1.Sugar | Creek | | | |
|---|------------------------|--|------------------------------|--|
| GLTS TO: Wahash | OFFICE . | PERFORMANCE MEAS SECTION, SPRINGFIE | | OF EDPISENTICES DESTIDATED |
| CARD NO. 1 | CARD COL. | CARD NO. 2 | CARD COL. | CARDNO, 3 |
| BF BASIN CODE | 04 | PLANT OR STATION NO. | ·-· 033 | FIPS COUNTY CODE TUSE ONLY FOR PLANTS! |
| B1040'71 LABO. | E1040 |)'71 LAB | <u>B1040</u> | 174 LAB |
| SAMPLE TYPE CODE | 10 E SAMPL | E TYPE CODE | 18 E SAMPLE | TYPE COOR |
| IZ YEAR | ARSENIC | | PLANKTON (NO ML) | 19 - 23 |
| MONTH | (BARIUM) | <u> </u> | FLUORIDE | 24 - 26 |
| 14 | BORON | 23 - 25 | CHLORIDE | |
| DAY | | 26 - 24 | SULFATE AS 504 | 27 - 30 |
| O 1 HOUR INEAREST) | CADMIUM | 29 - 32 | | 31 - 34 |
| P | CHROMIUM (HEX) | 23 - 35 | TOTAL SULFUR AS.S | 33 - 36 |
| TIME OF DAY (A,P,N,) | CHROMIUM (TRI) | | OIL | 39 - 42 - |
| WATER TEMPERATURE) (DEG, F,) | CH ROMIUMITO TAL 1 | 36 - 38 | M.B.A.S. | |
|) | СОРРЕЯ | 39 - 41 | CARBON CHLOROFORM Extract | |
| JNITS) 07.2 | CYANIDE | | TURBIDITY | 47 - 50 |
| . 34 - 38 | IRON | 46 - 49 | (UNITS) | |
| PHORUS 37 - 40 | ' (TOTAL) | 50 - 53 | RESIDUE ON | |
| | IRON(DISSOL VED) | | EVAPORATION | 55 • 58 |
| 7 | (LEAD) | _0 <u>,0</u> 0 | VOLATILE SUSP. | |
| 2) = 1 3. | MANGANESE | 57 - 60 | COLDR IUNITS) | 59 - 62 |
| 10LS | 5000000 | 61 - 63 | | 83 - 83 |
| 49 -52 FECAL COL I | MERCURY (MICROGM/L) | | HARONESS | 66 - 61 |
| 53 - 59 | NICKEL | 64 - 65 | ALKALIN)TY | 49 - 71 |
| 69 - 63 | | 67 - 69 | TOTAL ACIDITY | |
| RATE + ' | BELENIUM | 70 - 72 | FREE ACIDITY | 72 - 74 |
| - 64 - 66 | SILVER | 73 - 10 | | 75 - 77 |
| 87 - 69 | (ZINC) | _0.3 | OTHER TESTS REQUIRE | EO RESULTS |
| 70 · 72 | | 77 - 79 | - (#1° | 16-100C |
| 5./E.C. 0 7 0 C. | ALL RESULTS EXPRE | SSED AS MG/L EXCEPT | 7/1 | |
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| NSPORTED BY | | TOTAL TESTS REQUE | 3 750 | TESTS RUN |
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| | | Party State Control of the State Control of the State Control | C | |

| te Collected . 11/161/72 | FACILITY RUNGE | Collector G. 1 | | |
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| CAM KANTISI . | | STACA | M CODE: | |
| Wabash - Sugar | · Creek | | BF | |
| RCE OF SAMPLE: (Exact Location) | Witch near seu | the end of pre | sperty@ch | anlink. |
| fence and upsh | earn of heater | defluent | | (#2) |
|) . | U | <u> </u> | | |
| SICAL CESERVATIONS, REMARKS: V | | | | |
| flowing because | not heavy run | n pricedine | Iday; lig | lot, |
| furbidity | | | 3 . 0 0 | |
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| Arsenic | | _Coliform/100ml | 75 | BGD |
| O.O Barium | | Fecal Coliform - | TE DE CO | ത്ര |
| Boron | | /100ml Fecal Strep | 180 | (TS/EC) |
| Cedmium | | /100ml _Algae (Total) | 928 9 | Susp. Solids |
| Copper | | Ammonia (N) | • | Vol. Susp. Sol |
| Chromium (tri |) | _Organic Nitrogen() | ") <u>1.2</u> | (pli) |
| Chromium (hex |) | _Nitrate + Nitrite | | _Turbidity |
| Iron (Total) | | Phosphorus (P) | | Hardness |
| Iron (Dissolv | ed) | _Chloride | · . | Alkalinity |
| 0.00 Lead | | _Fluoride | | _Total Acidity |
| langanese | •• | Sulfate | | _Free Acidity |
| Mercury | garang ayan na sanan ana ana ana ana ana ana ana | Cyanide | | _Oil |
| Nickel * | | MBAS | | Other (Specify |
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| me Collected 12:50 PM | Sub-Easin Wah | ash |
| te Collected 11/14/72 | Collector G.T. | The same of the sa |
| • | • | binson (Crawford Co.) |
| Wabash & Sugar Creek | STREAM | BF |
| CE OF SAMPLE: (Exact Location) CADA 300 | downstram of th | eated elluent at |
| noint when dutch beco | - AB | 1111 |
| plant | 1 | 42 |
| Islan, OBSERVATIONS, REMARKS: Light tur | | |
| lotat NW countral pl | | ead on parking |
| reval in active of the | Saver greet real | |
| Arsenic | Coliform/100ml | ВСО |
| O.O Gariup | Fecal Coliform | JET G COD |
| Boron | /100ml Fecal Strep | TS/EC |
| Cedmium | /100ml / Algae (Total) | 975 (Susp. Solids) |
| Copper | Ammonia (N) | Vol. Susp. So |
| Chromium (tri) | Organic Nitrogen(N | 2 2 pH |
| Chromium (hex) | Nitrate + Nitrite | Turbidity |
| Iron (Total) | Phosphorus (P) | Hardness |
| Iron (Dissolved) | Chloride | Alkalinity |
| O. Co Lead | Fluoride | Total Acidity |
| Manganese | Sulfate | Free Acidity |
| Mercury | Cyanide | Oi1 |
| Nickel * | MBAS | Other (Specif |
| Selenium . | Phenol | 200 |
| Silver | . 3 | - ROLLING COLUMN |
| 0.05 (Zinc) | | B1040'73 |
| ranaported b | 7 140 Chm(U1) | the analyses couplaints in 14 1946 (1972) |
| Received by_ | | wie results forwarded NOV 2 8 1972 |
| Transported is | Y | at it tests requested 7 Tests for |
| the state of the s | j. | Comment of TE |